

1	CCCGGGCGAG	GACCCCTCCA	GGATGCAGGT	CCCGAACAGC	ACCGGCCCGG
51	ACAACGCGAC		CTGCGGAACC		
101	CCCGTGGTGT	ACTCGCTGGT			
151	CTCTCTGTGG	GTGCTGTGCC	GGCGCATGGG	GCCCAGATCC	CCGTCGGTCA
201	TCTTCATGAT	CAACCTGAGC	GTCACGGACC	TGATGCTGGC	CAGCGTGTTG
251	CCTTTCCAAA	TCTACTACCA	TTGCAACCGC	CACCACTGGG	TATTCGGGGT
301	GCTGCTTTGC	AACGTGGTGA	CCGTGGCCTT	TTACGCAAAC	ATGTATTCCA
351	GCATCCTCAC	CATGACCTGT	ATCAGCGTGG	AGCGCTTCCT	GGGGGTCCTG
401	TACCCGCTCA	GCTCCAAGCG	CTGGCGCCGC	CGTCGTTACG	CGGTGGCCGC
451	GTGTGCAGGG	ACCTGGCTGC	TGCTCCTGAC	CGCCCTGTCC	CCGCTGGCGC
501	GCACCGATCT	CACCTACCCG	GTGCACGCCC	TGGGCATCAT	CACCTGCTTC
551	GACGTCCTCA	AGTGGACGAT	GCTCCCCAGC	GTGGCCATGT	GGGCCGTGTT
601	CCTCTTCACC	ATCTTCATCC	TGCTGTTCCT	CATCCCGTTC	GTGATCACCG
651	TGGCTTGTTA	CACGGCCACC	ATCCTCAAGC	TGTTGCGCAC	GGAGGAGGCG
701	CACGGCCGGG	AGCAGCGGAG	GCGCGCGGTG	GGCCTGGCCG	CGGTGGTCTT
751	GCTGGCCTTT	GTCACCTGCT	TCGCCCCCAA	CAACTTCGTG	CTCCTGGCGC
801	ACATCGTGAG	CCGCCTGTTC	TACGGCAAGA	GCTACTACCA	CGTGTACAAG
851	CTCACGCTGT	GTCTCAGCTG	CCTCAACAAC	TGTCTGGACC	CGTTTGTTTA
901	TTACTTTGCG	TCCCGGGAAT	TCCAGCTGCG	CCTGCGGGAA	TATTTGGGCT
951	GCCGCCGGGT	GCCCAGAGAC	ACCCTGGACA	CGCGCCGCGA	GAGCCTCTTC
1001	TCCGCCAGGA	CCACGTCCGT	GCGCTCCGAG	GCCGGTGCGC	ACCCTGAAGG
1051	GATGGAGGGA	GCCACCAGGC	CCGGCCTCCA	GAGGCAGGAG	AGTGTGTTCT
1101	GAGTCCCGGG	GGCGCAGCTT	GGAGAGCCGG	GGGCGCAGCT	TGGAGATCC
1151	GGGGCGCATG	GAGAGGCCAC	GGTGCCAGAG	GTTCAGGGAG	AA

FIG. 1

FIG. 2. Predict d polypeptide sequence of HG52.

1 MQVPNSTGPD NATLQMLRNP AIAVALPVVY SLVAAVSIPG NLFSLWVLCR

51 RMGPRSPSVI FMINLSVTDL MLASVLPFQI YYHCNRHHWV FGVLLCNVVT

101 VAFYANMYSS ILTMTCISVE RFLGVLYPLS SKRWRRRRYA VAACAGTWLL

151 LLTALSPLAR TDLTYPVHAL GIITCFDVLK WTMLPSVAMW AVFLFTIFIL

201 LFLIPFVITV ACYTATILKL LRTEEAHGRE QRRRAVGLAA VVLLAFVTCF

251 APNNFVLLAH IVSRLFYGKS YYHVYKLTLC LSCLNNCLDP FVYYFASREF

301 QLRLREYLGC RRVPRDTLDT RRESLFSART TSVRSEAGAH PEGMEGATRP

351 GLQRQESVF

·D

[]

CCGGGCGAGGACCCCTCCAGGATGCAGGTCCCGAACAGCACCGGCCCGGACAACGCGACG MetGlnValProAsnSerThrGlyProAspAsnAlaThr

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70 90 110 CTGCAGATGCTGCGGAACCCGGCGATCGCGGTGGCCCTGCCCGTGGTGTACTCGCTGGTG LeuGlnMetLeuArgAsnProAlaIleAlaValAlaLeuProValValTyrSerLeuVal

130 150 170
GCGGCGGTCAGCATCCCGGGCAACCTCTTCTCTCTGTGGGTGCTGTGCCGGCGCATGGGG
AlaAlaValSerIleProGlyAsnLeuPheSerLeuTrpValLeuCysArgArgMetGly

190 210 230 CCCAGATCCCCGTCGGTCATCTTCATGATCAACCTGAGCGTCACGGACCTGATGCTGGCC ProArgSerProSerValIlePheMetIleAsnLeuSerValThrAspLeuMetLeuAla

250 270 290 AGCGTGTTGCCAAATCTACTACCATTGCAACCGCCACCACTGGGTATTCGGGGTG SerValLeuProPheGlnIleTyrTyrHisCysAsnArgHisHisTrpValPheGlyVal

310 330 350 CTGCTTTGCAACGTGGTGACCGTGGCCTTTTACGCAAACATGTATTCCAGCATCCTCACC LeuLeuCysAsnValValThrValAlaPheTyrAlaAsnMetTyrSerSerIleLeuThr

370 390 410
ATGACCTGTATCAGCGTGGAGCGCTTCCTGGGGGTCCTGTACCCGCTCAGCTCCAAGCGC
MetThrCysIleSerValGluArgPheLeuGlyValLeuTyrProLeuSerSerLysArg

430 450 470
TGGCGCCGCCGTCGTTACGCGGTGGCCGCGTGTGCAGCGACCTGCTGCTGCTCCTGACC
TrpArgArgArgArgTyrAlaValAlaAlaCysAlaGlyThrTrpLeuLeuLeuLeuThr

490 510 530 GCCCTGTCCCCGCTGGCGCACCGATCTCACCTACCCGGTGCACGCCCTGGGCATCATC AlaLeuSerProLeuAlaArgThrAspLeuThrTyrProValHisAlaLeuGlyIleIle

550 570 590 ACCTGCTTCGACGTCCTCAAGTGGACGATGCTCCCCAGCGTGGCCATGTGGGCCGTGTTC ThrCysPheAspValLeuLysTrpThrMetLeuProSerValAlaMetTrpAlaValPhe

Fig.3A

1150 1170 1190 GGAGATCCAGGGGCGCATGGAGAGGCCACGGTGCCAGAGGTTCAGGGAGAA

ArgGlnGluSerValPhe

Fig.3B

AGGCAGGAGAGTGTGTTCTGAGTCCCGGGGGCGCAGCTTGGAGAGCCGGGGGGCGCAGCTT

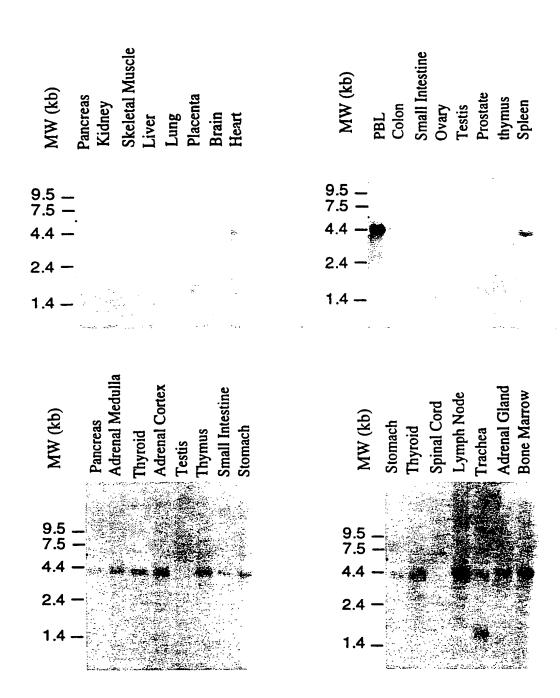


FIG.4

SUBSTITUTE SHEET (RULE 26)

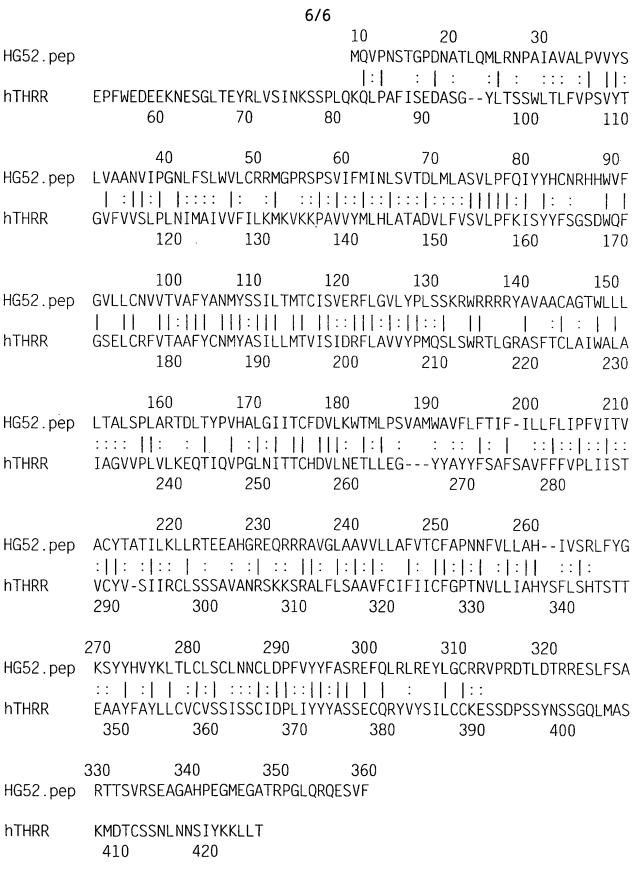


FIG.5